

a  
cont

11 having a weight that is at least 80% that of a comparable bullet for such firearm, said  
12 comparable bullet being formed from lead.

1 ~~2~~<sup>39</sup> The bullet of claim ~~38~~<sup>1</sup> in which the weight is at least 85% of the  
2 comparable lead bullet.

1 ~~3~~<sup>40</sup> The bullet of claim ~~38~~<sup>1</sup> in which the jacket and core separate on impact.

1 ~~4~~<sup>41</sup> The bullet of claim ~~38~~<sup>1</sup> in which the mass of the bullet is sufficient to  
2 actuate firearm reloading mechanisms.

1 ~~5~~<sup>42</sup> The bullet of claim ~~38~~<sup>1</sup> in which the tapered section is a truncated cone  
2 or truncated parabellum.

1 ~~6~~<sup>43</sup> The bullet of claim ~~38~~<sup>1</sup> in which the bullet has a tip that is parabolic,  
2 rounded or a hollow point.

1 ~~7~~<sup>44</sup> The bullet of claim ~~38~~<sup>1</sup> in which the jacket of the bullet extends over  
2 the tapered section attached to one end of the right cylindrical core.

1 ~~8~~<sup>45</sup> The bullet of claim ~~38~~<sup>1</sup> in which the other of the opposed ends is a  
2 truncated tapered section.

1 ~~9~~<sup>46</sup> The bullet of claim ~~38~~<sup>1</sup> in which the polymer of the core is an ionomer.

cont  
a1

1 ~~10~~ 10. The bullet of claim ~~38~~ 1 in which the polymer of the core is selected  
2 from ethylene/methacrylic acid copolymer ionomers, polyetherester elastomers and  
3 polyamides.

1 ~~11~~ 11. The bullet of claim ~~38~~ 1 in which the polymer of the core is an ethylene/  
2 methacrylic acid copolymer ionomer.

1 ~~12~~ 12. The bullet of claim ~~38~~ 1 in which the polymer of the core is polyamide.

1 ~~13~~ 13. The bullet of claim ~~49~~ 12 in which the polyamide is nylon 11.

1 ~~14~~ 14. The bullet of claim ~~38~~ 1 in which the filler is particles of copper.

1 ~~15~~ 15. The bullet of claim ~~38~~ 1 in which the filler is selected from the group  
2 consisting of tungsten, bismuth, tin and stainless steel.

1 ~~16~~ 16. The bullet of claim ~~38~~ 1 in which the bullet retains markings from the  
2 barrel of said firearm.

1 ~~17~~ 17. The bullet of claim ~~38~~ 1 in which the jacket at the other of the opposed  
2 ends is curled inwards towards the tip.

22

A

865007-11273750

a'  
cont.

1 <sup>18</sup>~~58~~. The bullet of claim <sup>17</sup>~~54~~ in which the remainder of said end is free of  
2 jacket.

1 <sup>19</sup>~~56~~. The bullet of claim <sup>1</sup>~~38~~ in which the jacket is copper.

1 <sup>20</sup>~~57~~. The bullet of claim <sup>1</sup>~~38~~ in which the jacket is a thermoplastic polymer.

1 <sup>21</sup>~~58~~. A bullet of claim <sup>1</sup>~~38~~ in a shell, said bullet being capable of being  
2 inserted into a firearm and fired therefrom.

1 <sup>59</sup>. A method for the manufacture of a bullet comprising the steps of:  
2 (a) inserting a right cylindrical shell having one open end into a mold of  
3 an injection molding apparatus, said shell being formed from a thermoplastic polymer  
4 or copper;  
5 (b) injecting a composition of a filler and a polymer selected from  
6 amorphous or low crystallinity polymer into said shell; and  
7 (c) removing said bullet so formed from the mold.

1 60. The method of claim 59 in which in step (b), the composition is  
2 injected into the right cylindrical shell and the shell is formed into the shape of the  
3 bullet.

264/3.3

a1  
cont

1           61.     The method of claim 60 in which the injection of the compositions and  
2     the forming of the shell to the shape of the bullet is carried out in a one-step injection  
3     molding process.

1           62.     The method of claim 59 in which the shell is copper.

1           63.     The method of claim 59 in which the cylindrical shell has a preformed  
2     tip.

1           64.     The method of claim 59 in which the tip is a hollow point tip, the end  
2     of the cylindrical shell opposed to the open end being formed into a shape in said  
3     mold.

1           65.     The method of claim 64 in which the said end is formed into the shape  
2     of a truncated cone.

1           66.     The method of claim 63 in which, in step (b), the cylindrical shell at  
2     its open end is curled in step (b) such that said end is curled inwardly towards the tip.

1           67.     The method of claim 66 in which the shell is curled inwardly by more  
2     than 90°.

1           68.     The method of claim 66 in which the shell is curled inwardly by at  
2     least 150°.

A